

hsmg1aa	1	10	20	30	40	50	
JBCsmg1	-626	MSRRAPGSR	SSGGTNYSR	WNDWQPRDS	ASADPNGLKY	SSSRDRGGSS	50
hsmg1aa	51	60	70	80	90	100	
JBCsmg1	-576	SYGLQPSNSA	VVSRQRHDDT	RVHADIQNDE	KGYSVNGGS	GENTYGRKSL	100
hsmg1aa	101	110	120	130	140	150	
JBCsmg1	-526	GQELRVNNVT	SPEFTSVQH	SRALATKDMR	KSQERSMSYS	DESRLSNLLR	150
hsmg1aa	151	160	170	180	190	200	
JBCsmg1	-476	RITREDDRR	RLATVKQLKE	FIQQPENKLV	LVKQLDNILA	AVHVDVNESS	200
hsmg1aa	201	210	220	230	240	250	
JBCsmg1	-426	KLLQELRQEG	ACCLGLLCAS	LSYEAKEIFK	WIFSKFSSSA	KDEVKLLLYC	250
hsmg1aa	251	260	270	280	290	300	
JBCsmg1	-376	ATYKALETVG	EKKAFFSSVMQ	LVMTSLQSL	ENVDTPELLC	KCVKCIILVA	300
hsmg1aa	301	310	320	330	340	350	
JBCsmg1	-326	RCYPHIFSTN	FRDVTDLV	WHIDHTQKPS	LTQQVSGWLQ	SLEPFVWADL	350
hsmg1aa	351	360	370	380	390	400	
JBCsmg1	-276	AFSTTLLGQF	LEDMEAYAED	LSHVASGESV	DEDVPPPSVS	LPKLAALLRV	400
hsmg1aa	401	410	420	430	440	450	
JBCsmg1	-226	FSTVVRISGE	RFSPIRGPPI	TEAYVTDVLY	RVMRCVTAAN	QVFFSEAVLT	450
hsmg1aa	451	460	470	480	490	500	
JBCsmg1	-176	AANECVGVLL	GSLDPSMTIH	CDMVITYGLD	QLENCQTCTG	DYIISVNLNL	500
hsmg1aa	501	510	520	530	540	550	
JBCsmg1	-126	TLIVEQINTK	LPSSFVEKLF	IPSSKLLFLR	YHKEKEVVAV	AHAVYQAVLS	550
hsmg1aa	551	560	570	580	590	600	
JBCsmg1	-76	LKNIPVLETA	YKLILGEMTC	ALNNLLHSLQ	LPEACESEIKH	EAFKNHVFNV	600
hsmg1aa	601	610	620	630	640	650	
JBCsmg1	-26	DNAKFVVKFD	LSALTITIGNA	KNSLIGMWAL	SPTVFALLSK	NLMIVHSDLA	650
hsmg1aa	651	660	670	680	690	700	
JBCsmg1	25	VHFPAIQYAV	LYTLYSHCTR	HDHFISSSLS	SASPSLFDGA	VISTVTTATK	700
hsmg1aa	701	710	720	730	740	750	
JBCsmg1	75	KHFSIILNLL	GILLKKDNLN	QDTRKLLMTW	ALEAAVLMRK	SETYAPLFSL	750
hsmg1aa	751	760	770	780	790	800	
JBCsmg1	125	PSFHKFKCGL	LANTLVEDVN	ICLQACSSHL	ALSSSLPDOL	LQRCVDVCRV	800
hsmg1aa	801	810	820	830	840	850	
JBCsmg1	175	QLVHSGTRIR	QAFGKLLKSI	PLDVLSNNN	HTEIQETSLA	LRSHMSKAPS	850
hsmg1aa	851	860	870	880	890	900	
JBCsmg1	225	NTFHPQDFSD	VISFILYGNM	HRTGKNWLE	RLFYSCQRID	KRDQSTIPRN	900
hsmg1aa	901	910	920	930	940	950	
JBCsmg1	275	LLKTDAVLWQ	WAIWEAAQFT	VLSKLRTPLG	RAQDTFQTJE	GIIRSLAAHT	950
hsmg1aa	951	960	970	980	990	1000	
JBCsmg1	325	LNPQDQVSWQ	TTADNDEGHG	NNQLRLVLL	QYLENLEKIM	YNAYEGCANA	1000
hsmg1aa	1001	1010	1020	1030	1040	1050	
JBCsmg1	375	LTSPPKVIRT	FFYTHRQTCQ	DWLTRIRLSI	MRVGLLAGOP	AVTVRHGFDL	1050
hsmg1aa	1051	1060	1070	1080	1090	1100	
JBCsmg1	425	LTSPPKVIRT	FFYTHRQTCQ	DWLTRIRLSI	MRVGLLAGOP	AVTVRHGFDL	424
hsmg1aa	1051	1060	1070	1080	1090	1100	
JBCsmg1	425	LTSPPKVIRT	FFYTHRQTCQ	DWLTRIRLSI	MRVGLLAGOP	AVTVRHGFDL	424

hsmgl1aa	1101	LWINSVAQQA	EGRFKASVYE	YQEHLCAMTG	VDCICSSFDK	SVLILANAGR	1150
JBCsmg1	475	LWINSVAQQA	EGRFKASVYE	YQEHLCAMTG	VDCICSSFDK	SVLTLANAGR	524
		1160	1170	1180	1190		
hsmgl1aa	1151	NSASPKHSLN	GESRKTVLSK	PTDSSPEVIN	YLGNKACEFY	ISIADMAAVQ	1200
JBCsmg1	525	NSASPKHSLN	GESRKTVLSK	PTDSSPEVIN	YLGNKACEFY	ISIADMAAVQ	574
		1210	1220	1230	1240		
hsmgl1aa	1201	EWQNAIHDLK	KSTSSSTSLNL	KADFNYIKSL	SSFESGKFVE	CTEQLELLPG	1250
JBCsmg1	575	EWQNAIHDLK	KSTSSSTSLNL	KADFNYIKSL	SSFESGKFVE	CTEQLELLPG	624
		1260	1270	1280	1290		
hsmgl1aa	1251	ENINLLAGGS	KEKIDMKLL	PNMLSPDPRE	LQKSIEVQLI	RSSVCLATAL	1300
JBCsmg1	625	ENINLLAGGS	KEKIDMKLL	PNMLSPDPRE	LQKSIEVQLI	RSSVCLATAL	674
		1310	1320	1330	1340		
hsmgl1aa	1301	NPIEQDQKWQ	SITENVVKYL	KQTSRIAIGP	LRLSTLTVSQ	SLPVLSTLQL	1350
JBCsmg1	675	NPIEQDQKWQ	SITENVVKYL	KQTSRIAIGP	LRLSTLTVSQ	SLPVLSTLQL	724
		1360	1370	1380	1390		
hsmgl1aa	1351	YCSCSALENTV	SNRLSTEDCL	IPLFSEALRS	CKQHDVPRPM	QALRYTMYQN	1400
JBCsmg1	725	YCSCSALENTV	SNRLSTEDCL	IPLFSEALRS	CKQHDVPRPM	QALRYTMYQN	774
		1410	1420	1430	1440		
hsmgl1aa	1401	QLEKIKEQT	VPIRSHLMEL	GLTAAKFARK	RGNVSLATRL	LAQCEVQLG	1450
JBCsmg1	775	QLEKIKEQT	VPIRSHLMEL	GLTAAKFARK	RGNVSLATRL	LAQCEVQLG	824
		1460	1470	1480	1490		
hsmgl1aa	1451	KTTTAQDLVQ	HFKKLSTGQ	VDEKWPGLD	IEKTKLLTYA	GQSTHAMEML	1500
JBCsmg1	825	KTTTAQDLVQ	HFKKLSTGQ	VDEKWPGLD	IEKTKLLTYA	GQSTHAMEML	874
		1510	1520	1530	1540		
hsmgl1aa	1501	SSCAISFCKS	VKAEYAVAKS	ILTLAKWIAQ	EWKEISGQLK	QYVRAHQQN	1550
JBCsmg1	875	SSCAISFCKS	VKAEYAVAKS	ILTLAKWIAQ	EWKEISGQLK	QYVRAHQQN	924
		1560	1570	1580	1590		
hsmgl1aa	1551	FTGLSTLSKN	ILTLIELPSV	NTMEEEPYRI	ESESTVHIGV	GEPDFILGQL	1600
JBCsmg1	925	FTGLSTLSKN	ILTLIELPSV	NTMEEEPYRI	ESESTVHIGV	GEPDFILGQL	974
		1610	1620	1630	1640		
hsmgl1aa	1601	YHLSSVQAPE	VAKSWAALAS	WAYRWGRKVV	DNASQGEVGR	LLPREKSEVQ	1650
JBCsmg1	975	YHLSSVQAPE	VAKSWAALAS	WAYRWGRKVV	DNASQGEVGR	LLPREKSEVQ	1024
		1660	1670	1680	1690		
hsmgl1aa	1651	NLLPDTITTEE	EKERIYGILG	QAVCRPAGIQ	DEDITLQITE	SEDNEEDDMV	1700
JBCsmg1	1025	NLLPDTITTEE	EKERIYGILG	QAVCRPAGIQ	DEDITLQITE	SEDNEEDDMV	1074
		1710	1720	1730	1740		
hsmgl1aa	1701	DVIWRQLISS	CPWLSELDES	ATEGVIKVWR	KVVDRIFSYL	KLSCSAYFTF	1750
JBCsmg1	1075	DVIWRQLISS	CPWLSELDES	ATEGVIKVWR	KVVDRIFSYL	KLSCSAYFTF	1124
		1760	1770	1780	1790		
hsmgl1aa	1751	LKLNAGQIPL	DEDDPRLHLS	HRVEQSTDDM	IVMATLRLRL	LLVKHAGELR	1800
JBCsmg1	1125	LKLNAGQIPL	DEDDPRLHLS	HRVEQSTDDM	IVMATLRLRL	LLVKHAGELR	1174
		1810	1820	1830	1840		
hsmgl1aa	1801	QYLEHGLETT	PTAPWRGIIP	QLFSRLNHPE	VYVRQSTICN	LCRVAQDSPH	1850
JBCsmg1	1175	QYLEHGLETT	PTAPWRGIIP	QLFSRLNHPE	VYVRQSTICN	LCRVAQDSPH	1224
		1860	1870	1880	1890		
hsmgl1aa	1851	LILYPAIVGT	ISLSSESQAS	GNKFSTAIP	LLGNIQGEEL	LVSECEGGSP	1900
JBCsmg1	1225	LILYPAIVGT	ISLSSESQAS	GNKFSTAIP	LLGNIQGEEL	LVSECEGGSP	1274
		1910	1920	1930	1940		
hsmgl1aa	1901	PASQDSN KDE	PKSGLNEDQA	MMQDCYSKIV	DKLSSANPTM	VLQVQMLVAE	1950
JBCsmg1	1275	PASQDSN KDE	PKSGLNEDQA	MMQDCYSKIV	DKLSSANPTM	VLQVQMLVAE	1324
		1960	1970	1980	1990		
hsmgl1aa	1951	LRRTVLWDE	LWLGVLLQOH	MYVLRRIQQL	EDEVKRVQNN	NTLRKEEKIA	2000
JBCsmg1	1325	LRRTVLWDE	LWLGVLLQOH	MYVLRRIQQL	EDEVKRVQNN	NTLRKEEKIA	1374
		2010	2020	2030	2040		
hsmgl1aa	2001	IMREKHTALM	KPIVFALEHV	RSITAAPAET	PHKEWFQDNY	GDAIENALEK	2050
JBCsmg1	1375	IMREKHTALM	KPIVFALEHV	RSITAAPAET	PHKEWFQDNY	GDAIENALEK	1424
		2060	2070	2080	2090		
hsmgl1aa	2051	LKTPLNPAKP	GSSWIPPFKEI	MLSLLQRAQK	RASYILRLIE	ISPWLAAMTN	2100
JBCsmg1	1425	LKTPLNPAKP	GSSWIPPFKEI	MLSLLQRAQK	RASYILRLIE	ISPWLAAMTN	1474
		2110	2120	2130	2140		
hsmgl1aa	2101	TEIALPGEVS	ARDVTIHSV	GGTITILPTK	TKPKKLLFLG	SDGKSYPYLF	2150
JBCsmg1	1475	TEIALPGEVS	ARDVTIHSV	GGTITILPTK	TKPKKLLFLG	SDGKSYPYLF	1524
		2160	2170	2180	2190		
hsmgl1aa	2151	KGLEDHLDE	RIMQFLSIVN	TMFATINRQE	TPRFHARIYS	VTPLGTRSLG	2200
JBCsmg1	1525	KGLEDHLDE	RIMQFLSIVN	TMFATINRQE	TPRFHARIYS	VTPLGTRSLG	1574
		2210	2220	2230	2240		
hsm1aa	2201	IOWVDGATPL	FGLYKKNOOR	EAAALOAOKA	DSYOTPNPQG	IVPRPSELYS	2250

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JBCsmg1	1575	IQWVDGATPL	FGLYKRNRQR	EAALQAQKAQ	DSYQTQPQNP	IVPRPSELYY	1624
hsmg1a0	2251	2260	2270	2280	2290	2300	
JBCsmg1	1625	SKIGPALKTV	GLSLDVSRRD	WPLHVMKAVL	EELMEATPPN	LLAKELWSSC	2300
hsmg1a0	2301	2310	2320	2330	2340	2350	
JBCsmg1	1675	TTPEWNRVTV	QSYARSTAVM	SMVGYYIIGL	DRHLDNVLID	MTTGEVVHID	2350
hsmg1a0	2351	2360	2370	2380	2390	2400	
JBCsmg1	1725	YNVCFEKGKS	LRVPEKVPPR	MTQNIETALG	VTGVEGVFRL	SCEQVLHIMR	2400
hsmg1a0	2401	2410	2420	2430	2440	2450	
JBCsmg1	1775	RGRETLLTLL	EAFVYDPLVD	WTAGGEGAFG	GAVYGGGGQG	AESQSKREM	2450
hsmg1a0	2451	2460	2470	2480	2490	2500	
JBCsmg1	1825	EREITRSLFS	SRVAEIKVNV	FKNRDEMLVV	LPKLDGSLDE	YLSLQEQULT	2500
hsmg1a0	2501	2510	2520	2530	2540	2550	
JBCsmg1	1875	VEKLQGLLE	EIFLEGAEAG	VDHPSHTLQH	RYSEHTQLQT	QQRVQEAIQ	2550
hsmg1a0	2551	2560	2570	2580	2590	2600	
JBCsmg1	1925	VKLNEFEQWI	THYQAAFNNL	EATQLASLLQ	EISTQMDLGP	PSYVPATAFL	2600
hsmg1a0	2601	2610	2620	2630	2640	2650	
JBCsmg1	1975	QNAGQAHLIS	QCEQLEGEVG	ALLQQRSSVL	RGCLQLHHY	ATVALQYPKA	2650
hsmg1a0	2651	2660	2670	2680	2690	2700	
JBCsmg1	2025	IFQKHRIEQW	KTWMEELICN	TTVERCQELY	RKYEMQYAPQ	PPPTVCQFIT	2700
hsmg1a0	2701	2710	2720	2730	2740	2750	
JBCsmg1	2075	ATEMTLQRYA	ADINSRLIRQ	VERLKQEAFT	VPVCEDLKE	IERICVFLH	2750
hsmg1a0	2751	2760	2770	2780	2790	2800	
JBCsmg1	2125	ENGEGSLSL	ASVVISALCT	LTRRNLMHEG	AASSAGEQLV	DLTSRDGANF	2800
hsmg1a0	2801	2810	2820	2830	2840	2850	
JBCsmg1	2175	LEELCSMSGN	VTCLVQLLKQ	CHLVPQDLDI	PNPMEASETV	HLANGVYTSL	2850
hsmg1a0	2851	2860	2870	2880	2890	2900	
JBCsmg1	2225	QELNSNFRQI	IFPEALRCLM	KGEYTLSEML	HELDGLIEQT	TGCVPLQTLV	2900
hsmg1a0	2901	2910	2920	2930	2940	2950	
JBCsmg1	2275	ESLQAYLRNA	AMGLEEEETHA	HYIDVARLLH	AQYGELIQPR	NGSVDETPKM	2950
hsmg1a0	2951	2960	2970	2980	2990	3000	
JBCsmg1	2325	SAGQMLLVAF	DGMFAQVETA	FSLLVLEKLNK	MEIPIAWRKI	DIIREARSTQ	3000
hsmg1a0	3001	3010	3020	3030	3040	3050	
JBCsmg1	2375	VNFFDDDNHR	QVLEEIFFLK	RLQTKJEFFR	LCGTFSKTL	GSSSLEDQNT	3050
hsmg1a0	3051	3060	3070	3080	3090	3100	
JBCsmg1	2425	VNGPVQIVNV	KTLFRNSCF	EDQMAKPIKA	FTADFVRQLL	IGLPNQALGL	3100
hsmg1a0	3101	3110	3120	3130	3140	3150	
JBCsmg1	2475	TLCFSFISALG	VDIIAQVEAK	DGFAESKVS	DDLCKKAVEH	NIQIGKFSQL	3150
hsmg1a0	3151	3160	3170	3180	3190	3200	
JBCsmg1	2525	VNMRATVLAS	SYDTANKKHD	LVRRLTETSIS	SCKTSLQRVQ	LHIAFMQNHQ	3200
hsmg1a0	3201	3210	3220	3230	3240	3250	
JBCsmg1	2575	EDLLINRQQA	MSVTPPPRSA	ILTSMKKKLLH	TLSQIETISA	TVQEKLALE	3250
hsmg1a0	3251	3260	3270	3280	3290	3300	
JBCsmg1	2625	SSIEQRLKWA	GGANPALAPV	LQDFEATIAE	RRNLVLKESQ	RASQVTFCLC	3300

hsmg1aa	3351	3360	3370	3380	3390	3400	3400
JBCsmg1	2725	LQRVDTGLEH	PIGSSEWLLS	AHKQLTQDMS	TQRAIQTEKE	QQIETVCETI	2774
		3410	3420	3430	3440	3450	
hsmg1aa	3401	QNLVDNIKT	LTGHNRQLGD	VKHLKAMAK	DEEAALADGE	DVPYENSVRQ	3450
JBCsmg1	2775	QNLVDNIKT	LTGHNRQLGD	VKHLKAMAK	DEEAALADGE	DVPYENSVRQ	2824
		3460	3470	3480	3490	3500	
hsmg1aa	3451	FLGEYKSWQD	NIQTVLFTLV	QAMGQVRSQE	HVEMLQEITP	TLKELKTQSQ	3500
JBCsmg1	2825	FLGEYKSWQD	NIQTVLFTLV	QAMGQVRSQE	HVEMLQEITP	TLKELKTQSQ	2874
		3510	3520	3530	3540	3550	
hsmg1aa	3501	SIYNNLVSFA	SPLVTDATNE	CSSPTSSATY	QPSFAAAVRS	NTGQKTQPDV	3550
JBCsmg1	2875	SIYNNLVSFA	SPLVTDATNE	CSSPTSSATY	QPSFAAAVRS	NTGQKTQPDV	2924
		3560	3570	3580	3590	3600	
hsmg1aa	3551	MSQNARKLIQ	KNLATSADTP	PSTVPGTGKS	VACSPKKAVR	DPKTGKAVQE	3600
JBCsmg1	2925	MSQNARKLIQ	KNLATSADTP	PSTVPGTGKS	VACSPKKAVR	DPKTGKAVQE	2974
		3610	3620	3630	3640	3650	
hsmg1aa	3601	RNSYAVSVWK	RVKAKLEGRD	VDPNRRMSVA	EQVDYVIKEA	TNLDNLAQLY	3650
JBCsmg1	2975	RNSYAVSVWK	RVKAKLEGRD	VDPNRRMSVA	EQVDYVIKEA	TNLDNLAQLY	3024
		3660	3670	3680	3690	3700	
hsmg1aa	3651	EGWTAWV...	.....	.....	.....	.....	3700
JBCsmg1	3025	EGWTAWV...	.....	.....	.....	.....	3074